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Application Number	10/651,205
Filing Date	August 29, 2003
First Named Inventor	Johnson et al.
Art Unit	3632
Examiner Name	R. Ramirez

Attorney Docket Number

45088

### ENCLOSURES (Check all that apply)

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Reply Brief		

### SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE  
BEFORE THE BOARD OF PATENT APPEALS AND INTERFERENCES

Application No.: 10/651,205

Confirmation No.: 7628

Applicant: Johnson et al.

Filed: August 29, 2003

TC/A.U.: 3632

Examiner: R. Ramirez

Docket No.: 45088

Customer No.: 01609

For: BRACE ASSEMBLY FOR CEILING FANS AND FIXTURES

**REPLY BRIEF UNDER 37 CFR § 1.193(b)(1)**

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Application No. 10/651,205

Reply Brief Dated August 3, 2005

Reply to Examiner's Answer of June 3, 2005

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE  
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For: BRACE ASSEMBLY FOR CEILING FANS AND FIXTURES

**REPLY BRIEF UNDER 37 CFR § 1.193(b)(1)**

Mail Stop Appeal Brief - Patents  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

For the appeal to the Board of Patent Appeals and Interferences from the decision of October 8, 2004 rejecting claims 1 – 16, 18 – 21 and 29 - 30 in the above-identified application, Appellant submits the following reply brief in response to the Examiner's Answer of June 3, 2005 in accordance with 37 C.F.R. § 1.193(b)(1).

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Reply Brief Dated August 3, 2005  
Reply to Examiner's Answer of June 3, 2005

**I.       Real Party in Interest**

There is no dispute as to the real party in interest.

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**II.      Related Appeals and Interferences**

There is no dispute as to related appeals and interferences.

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**III.     Status of Claims**

There is no dispute as to the status of the claims.

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**IV.     Status of Amendments**

There is no dispute as to the status of amendments after final rejection.

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**V.      Summary of the Claimed Subject Matter**

There is no dispute as to the summary of the claimed subject matter.

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**VI.     Grounds of Rejection on Appeal**

There is no dispute as to the grounds of rejection on appeal.

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**VII. ClaimsAppealed**

There is no dispute as to the copy of the appealed claims contained in the Appendix to Appellants' Appeal Brief.

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**VIII. Prior Art of Record**

There is no dispute as to the listing of the prior art of record.

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**IX. Grounds of Rejection**

In the Examiner's Answer, the Examiner maintains the rejections of the pending claims.

Claims 1, 3, 5 are rejected under 35 U.S.C. § 102(b) as anticipated by U.S. Patent No. 4,967,990 to Rinderer.

Claim 2 is rejected under 35 U.S.C. § 103(a) as obvious over U.S. Patent No. 4,967,990 to Rinderer.

Claims 4, 8 – 16, 20, 21, 29 and 30 are rejected under 35 U.S.C. § 103(a) as obvious over U.S. Patent No. 4,967,990 to Rinderer in view of U.S. Patent No. 4,050,603 to Harris et al.

Claim 6 is rejected under 35 U.S.C. § 103(a) as obvious under U.S. Patent No. 4,967,990 to Rinderer; in view of U.S. Patent No. 5,040,316 to Fast.

Claims 18 – 21 are rejected under 35 U.S.C. § 103(a) as obvious under U.S. Patent No. 4,967,990 to Rinderer in view of U.S. Patent No. 4,050,603 to Harris et al. and in further view of U.S. Patent No. 5,040,316 to Fast.

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**X. Reply to Examiner's Response to Appellants' Arguments**

The claimed invention is directed to a brace assembly to support an electrical box. The embodiments of the present invention provide a brace assembly that is temporarily secured between supports without tools. For the reasons discussed herein, the art of record does not disclose or suggest the features of the present invention. Therefore, claims 1 – 16, 18 – 21 and 29 - 30 are patentable over the art of record.

This Reply Brief is being filed to respond to several incorrect statements made in the Examiner's Answer. Contrary to the assertion on page 6 of the Examiner's Answer, U.S. Patent No. 4,967,990 to Rinderer (the Rinderer patent) does not disclosure or suggest a compression fit. Furthermore, the Rinderer patent does not disclose a mounting surface having a fastener hole and a flange extending perpendicularly outwardly therefrom. Finally, contrary to the Examiner's assertion on page 7 of the Examiner's Answer, U.S. Patent No. 5,040,316 (the Fast patent) is non-analogous art, such that the rejection based on modifying the Rinderer patent in view of the Fast patent is improper.

**A. U.S. Patent No. 4,967,990 to Rinderer Does Not Disclose a Compression Fit**

On page 6 of the Examiner's Answer, it is alleged that the Rinderer patent provides a compression fit and that "the strength of such fit would depend from the distance between the studs." However, there is no suggestion or motivation in the Rinderer patent to use the Rinderer brace assembly to obtain a compression fit between the vertical wall studs. As is clearly shown in FIG. 2, the fastening flaps 53 are secured by fasteners 57 to upper surfaces of the vertical wall studs. The fastening flaps 53 resting on the upper surfaces of the vertical wall studs prevent the Rinderer brace assembly from falling through the gap between the

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vertical wall studs prior to insertion of the fasteners 57, such that a compression fit is not needed to secure the Rinderer brace assembly in place. Thus, there is no reason or motivation to create a compression fit between the Rinderer brace assembly and the vertical wall studs.

However, contrary to the Rinderer brace assembly, Applicants' brace assembly is secured to lower surfaces of the vertical wall studs, as shown in FIGS. 1 and 2. Therefore, a compression fit must be formed between Applicants' brace assembly and the vertical wall studs to secure the brace assembly between the vertical wall studs without requiring the brace assembly to be held in place by tools or the installer prior to insertion of fasteners through the brace assembly and into the vertical wall studs.

The examiner further alleges that a contact area exists between the Rinderer extensions 51 and the inner side surfaces of the vertical wall studs, as indicated by the figure included on page 6 of the Examiner's Answer. However, independent claim 1 recites that the mounting surface is "adapted to create a compression fit by contacting the first support member when installed." While there may be contact between the Rinderer extensions 51 and the inner side surfaces of the vertical wall studs, such contact is merely incidental as it is the result of having mounting flanges secured to an upper surface of the vertical wall studs being connected to the bar 21 of the brace assembly by the downwardly extending extensions 51. Because the Rinderer extensions 51 extend downwardly to the bar 21 of the brace assembly from the fastening flaps 53, incidental contact occurs with the inner sides of the vertical wall studs near the upper surface thereof. Such contact is not intended to nor does it function to create a compression fit between extensions 51 and the vertical wall studs.

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Therefore, the Rinderer patent does not disclose or suggest forming a compression fit between a mounting surface of the brace assembly and a support member as recited in independent claims 1, 8 and 29.

**B. U.S. Patent No. 4,967,990 to Rinderer Does Not Disclose a Flange Extending Perpendicularly Outwardly from the First Mounting Surface**

It is further alleged that the first mounting surface, which is adapted to create a compression fit by contacting the first support member as recited in independent claim 1, has a first flange extending perpendicularly outwardly from the first mounting surface. However, if the first mounting surface is taken to be the Rinderer extension 51 and the flange 53 as indicated by the Examiner with respect to independent claim 1 (which it must if the first mounting surface is to have a first fastener hole as recited in independent claim 1), then the Rinderer patent does not disclose a flange extending perpendicularly outwardly from the first mounting surface as recited in dependent claims 5, 13, 14, 20 and 21. Therefore, the Rinderer patent does not disclose all the features recited in dependent claims 5, 13, 14, 20 and 21.

**C. U.S. Patent No. 5,040,316 to Fast is Non-Analogous Art**

The Examiner contends that the Fast patent is analogous art simply because the Fast patent discloses an adjustable bracket. As noted on page 14 of Appellants' Brief, “[t]he combination of elements from non-analogous sources, in a manner that reconstructs the applicant's invention only with the benefit of hindsight is insufficient to present a prima facie case of obviousness.” In re Oetiker, 977 F.2d 1443, 24 USPQ2d 1443 (Fed. Cir. 1992). Merely because the Fast patent discloses a bracket, does not automatically result in the Fast patent being analogous art. Two criteria are relevant in determining whether prior art is analogous: (1) whether the art is from the same field of endeavor regardless of the problem

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addressed; and (2) if the art is not within the same field of endeavor, whether it is still reasonably pertinent to the particular problem to be solved. Wang Laboratories, Inc. v. Toshiba Corp., 993 F.2d 858, 26 USPQ2d 1767 (Fed. Cir. 1993).

The Fast patent is directed to a product display tag for use with support hooks (col. 1, lines 15 – 17). Applicants' invention relates to a brace assembly for ceiling fans and fixtures. Clearly, product display tags and brace assemblies for ceiling fans and fixtures are from different fields of endeavor. One skilled in the art would not look to the field of product display tags when attempting to solve problems associated with brace assemblies for electrical fans and fixtures.

The problem being addressed by the Fast patent is an adjustable length tag 10 that can be used with hooks 32 of various lengths (col. 1, lines 31 – 37). Applicants' invention is directed to a brace assembly temporarily securable between supports without tools and having adjustable mounting surfaces to accommodate various wall thicknesses (paragraphs 8 and 41). The problem being addressed by the Fast patent is clearly not reasonably pertinent to solving the problem associated with providing a brace assembly having adjustable mounting surfaces to accommodate various wall thicknesses when installing an electrical box.

Therefore, the Fast patent is non-analogous art and its combination with the Rinderer patent is improper.

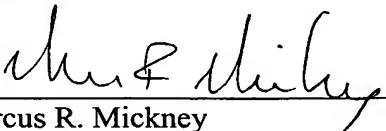
**D. Conclusion**

For the reasons presented herein, Applicants submit that claims 1 – 16, 18 – 21 and 29 - 30 are not anticipated under 35 U.S.C. § 102(b) or rendered obvious under 35 U.S.C. §

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103(a) by the cited references of record. Accordingly, reversal of the final rejection is requested and allowance of claims 1 – 16, 18 – 21 and 29 – 30 is respectfully requested.

Respectfully submitted,

  
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Dated: AUGUST 3, 2005